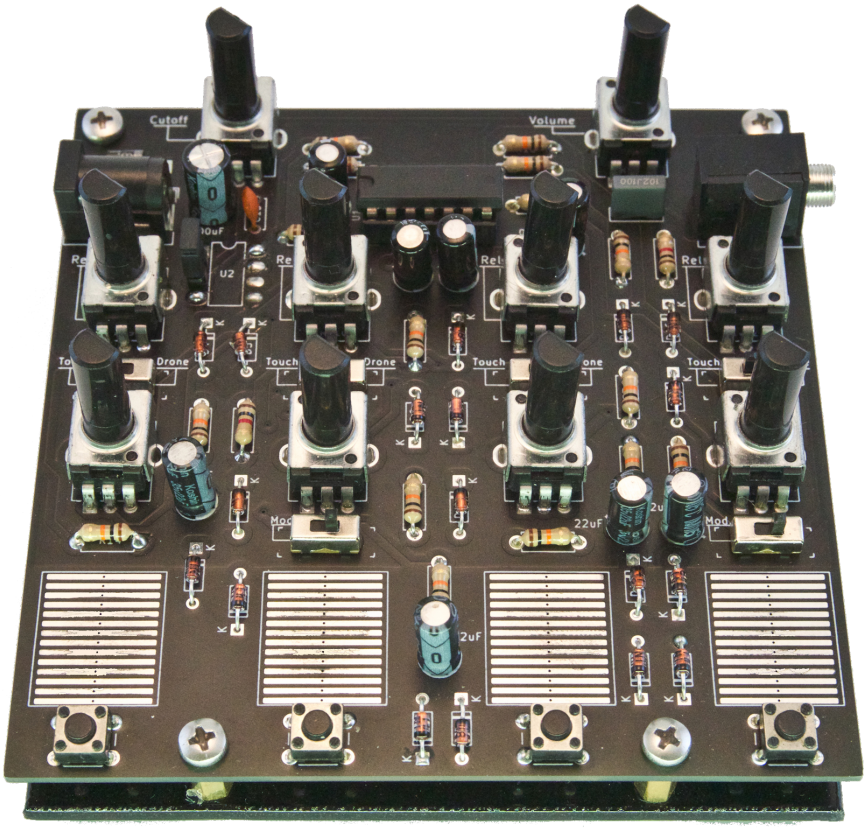
VAVMi



DIY DRONE SYNTHESIZER MANUAL EN

INTRODUCE

It is a drone synthesizer that can be played with 4 analog channels or 4 voices. You can play it with the touchpads or the buttons. The main difference between the touchpads and the buttons is that the former reacts accordingly to the level of pressure you force upon them with your finger. In fact, each channel is designed as a monophonic synth voice, and each has a sustain-release 2-stage envelope and a basic vca. In total, it has 4 envelopes and 4 vcas. Behind the vca, there is a 4-channeled mixer. This mixer is used for the summing of these 4 voice channels. A modulation of frequency between the Oscillators 1-2 and the Oscillators 3-4 is possible. At the very end of this diagram, there is an RC filter that can adjust the frequency rate and tune of the synthesizer. It can run with a 9v DC adaptor or with batteries. The audio output is designed as a 1/8mm TS jack.

Technicial Specifications:

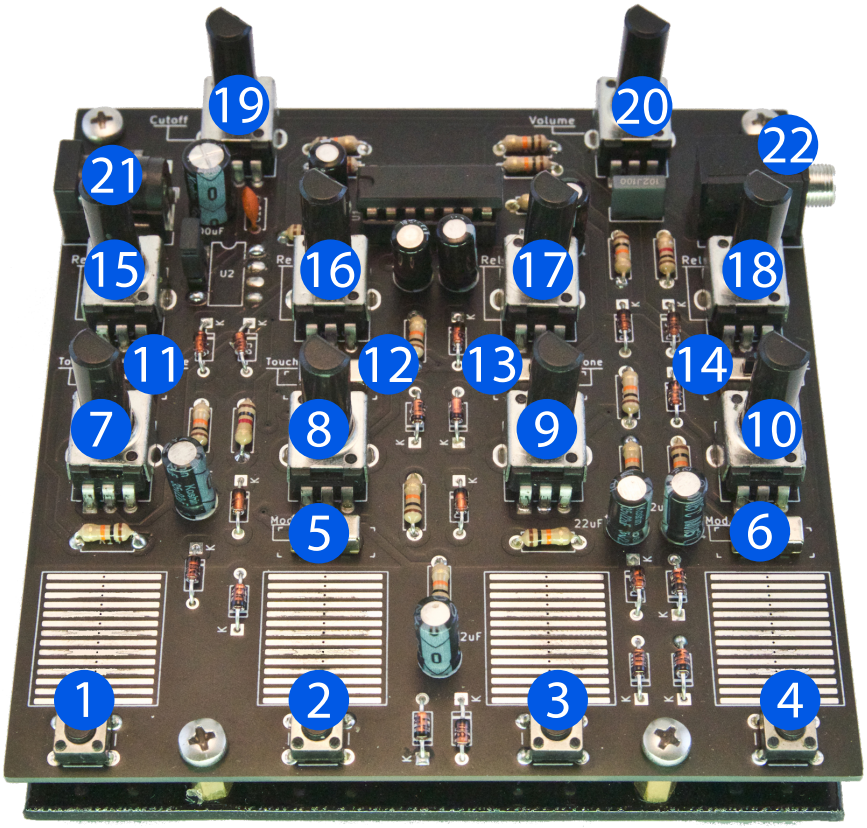
- 4 Polyphony
- 4 Analog Oscillator
- Touchpads and Buttons
- 4 Analog Envelope (Sustain, Release)
- 4 Analog Vca
- 4 Channel Mixer
- 1 Analog RC Filter
- FM Modulation
- Can work with adapter or 9V battery
- Mono Output (1/8mm jack output)

* If your fingers are dry while touching the touchpads of the DIY Drone Synthesizer, they are non-conductive. Your fingers need to be a little bit wet. (You can use cream or water for this) The larger the area you touch, the more conductive it will be. This way, you can change velocity.

* For C6 OSC1, C4 OSC2, C5 OSC2, C2 OSC2. If you change these capacitors, the octave range (frequency) of the oscillators will also change. When you modulate OSC3 and OSC4 seperately, OSC1 and OSC2 will mute since at some frequencies the phases are reversed. You can reduce this possibility by changing these capacitors.

* This project was created for a workshop.

FRONT PANEL



1. Osc. 1 Touch or Button
2. Osc. 2 Touch or Button
3. Osc. 3 Touch or Button
4. Osc. 4 Touch or Button
5. Osc. 1 Osc. 2 Modulation Switch
6. Osc. 3 Osc. 4 Modulation Switch
7. Osc. 1 Tune
8. Osc. 2 Tune
9. Osc. 3 Tune
10. Osc. 4 Tune
11. Osc. 1 Touch or Drone Switch
12. Osc. 2 Touch or Drone Switch
13. Osc. 3 Touch or Drone Switch
14. Osc. 4 Touch or Drone Switch
15. Env. 1 Release
16. Env. 2 Release
17. Env. 3 Release
18. Env. 4 Release
19. Filter Cutoff
20. Output Volume
21. Power Jack ⊖-◉-⊕
22. Output Jack

WARRANTY CONDITIONS

Diy kits are not covered by Vaemi warranty. Vaemi is not responsible for and accepts no responsibility for assembly errors or other problems with DIY kits.
Vaemi gives a one-year warranty on this product when you get it assembled.

The warranty period starts after the day you buy the product. (A proof of purchasing / a bill is required). Mistakes such as using the wrong power supply, connecting the cable to the bus board or the module in the wrong way, using a faulty flat (ribbon) cable, taking off the components, changing the front board, forwarding an output to another one will take the product out of warranty. In such a case, you will need to pay the normal service fee. Vaemi is not responsible, and will not take responsibility, for the damage that the product or the user may face because of operating the product. During the warranty period, a faulty product will be repaired by Vaemi for free. Shipping fees for sending the product back to Vaemi will be paid by the buyer.
For your further questions, please contact us on vaemisynth@gmail.com.

CE/REACH Compliant/RoHS Compliant
All Vaemi product are assembled with parts and materials that are compliant with CE/REACH/RoHs standards.

made in Türkiye